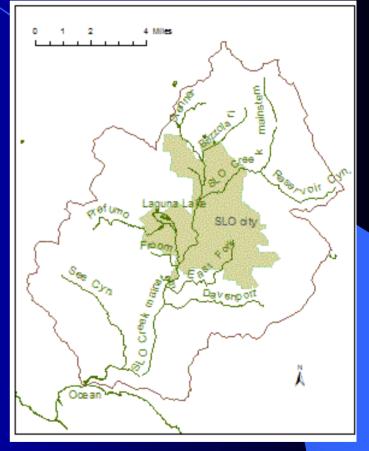
## San Luis Obispo Creek TMDL For Nitrate-nitrogen

Agenda Item 8

Presented by Michael Buckman

### Overview

- Intro
- Target
- Source Analysis
- Allocations
- Implementation
- Issues

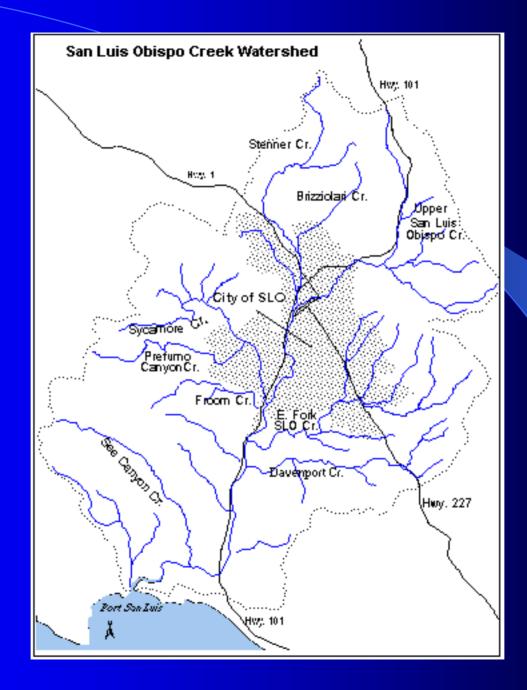




- 1994 303(d) listing: Nutrients
- Impairment: Nitrate (NO<sub>3</sub>)
- Water Quality Objective: 45mg/L-NO<sub>3</sub>
- Impairing: Municipal and Domestic Supply (MUN)

### TMDL Target

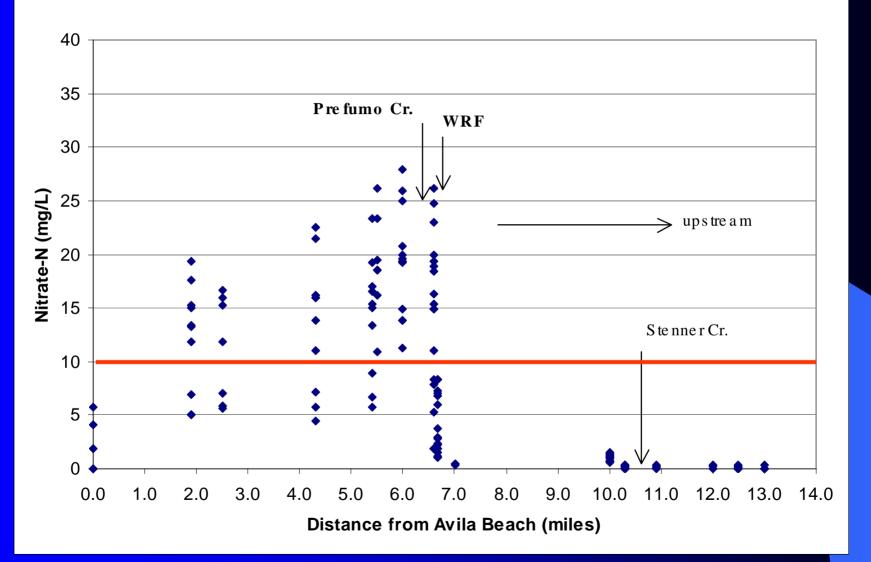
- Water Quality Objective = Numeric Target
- 45 mg/L-NO<sub>3</sub> = 10 mg/L-N
- Numeric target: 10 mg/L-N
- Nitrate as  $NO_3$  N vs. Nitrate as  $NO_3$   $NO_3$ 
  - Identical analysis
  - NO<sub>3</sub>- N More common reference
  - Different Unit of Measure ie Miles-Meters



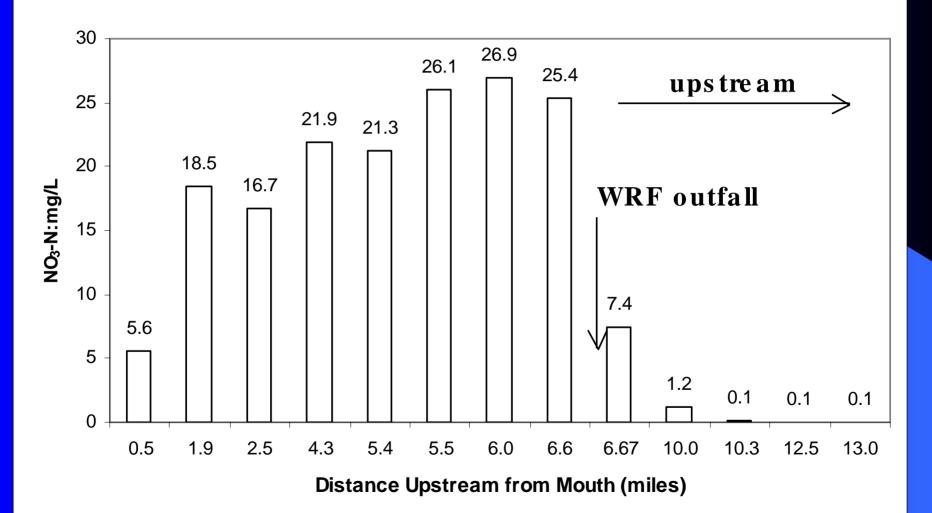
### **Source** Analysis

- Exceedance of numeric target downstream of WRF outfall and Prefumo Creek tributary.
- Decreasing order of nitrate-N contribution
  - Water Reclamation Facility
  - Croplands
  - Background
  - Reservoirs
  - Residential

#### Nitrate f(Distance upstream) from March 2001 to April 2002



### San Luis Obispo Creek Average: Average Nitrate Levels for Sept/Oct 2000 and 2001



### Allocations

- WRF effluent limit:
  Monthly mean nitrate-N ≤ 10 mg/L-N
  Croplands receiving water allocation:
  Discharge shall not cause nitrate to exceed 10 mg/L-N
- Other sources (urban sources, reservoirs, background):
  - Equal to current loading

### Implementation

Water Reclamation Facility
NPDES permit

May 2007

Addition of effluent limit

Cease and Desist

• Time Schedule (life of permit)

### Implementation (Cont.)

- Croplands
  - Conditional Waiver for Irrigated Lands
- Urban Sources (incl. residential)
  - Currently meeting allocation
  - Stormwater permits







# Questions





